

From nielwiegand at aggienetwork.com Fri Jun 1 09:16:03 2018
From: nielwiegand at aggienetwork.com (Niel Wiegand)
Date: Fri, 1 Jun 2018 08:16:03 -0500
Subject: [BoatAnchors] link coupled output network component values?
In-Reply-To: <65f8bcfa-24fa-150b-157c-7ffdec71288d@aafradio.org>
References: <580290670.1859063.1525924850321.ref@mail.yahoo.com>
<580290670.1859063.1525924850321@mail.yahoo.com>
<mailman.170.1527520383.1199.boatanchors@lists.theporch.com>
<c49ba01a-9707-a805-4f7e-ac565746a24f@kd5byb.net>
<46dfc791-6fcb-2f69-dab9-ae6d57ebe6a3@att.net>
<eca0ca33-9f75-1639-bc08-d20991cb392d@aafradio.org>
<8b0e0b6e-5328-6c81-4c0a-71bd6b408719@att.net>
<65f8bcfa-24fa-150b-157c-7ffdec71288d@aafradio.org>
Message-ID: <f3acf047-0cfd-fe23-dc6a-fb8a86ac27d8@aggienetwork.com>

I've seen the math for pi network component values...can anyone point me to the math for link coupled output networks including the case of a loading cap in series with the link?

Thanks,
Niel - W0VLZ

From donreaves at gmail.com Sat Jun 2 02:49:18 2018
From: donreaves at gmail.com (Don Reaves)
Date: Sat, 2 Jun 2018 01:49:18 -0500
Subject: [BoatAnchors] EE books for postage
Message-ID: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>

These are duplicates I no longer need, nor want to move to a future new QTH.

<http://radiohome.com/Images/EngineeringBooks1.JPG>

Free for postage. If you see a text or texts you want, let me know which by title and your mailing particulars. I'll ship to you USPS media and if you are happy with what you get, reimburse my postage. Unless I owe you a favor or two (I'll looking at you Dave Stinson and Ben Hall) in which case everything is on me.

I would specify Rules of Ware but can't find a copy of his original terms and apparently Larry is long gone from these parts.

There is one book on the top right with a hard to read title - that one is Principles of Electrical Engineering by Del Toro.

And I have two more that aren't visible in the picture:

High Frequency Alternating Currents, by McIlwain and Brainerd
Radio Physics Course, by Ghirardi

After a week or two, what's left goes to Goodwill.

Don W5OR
donreaves at gmail.com

From smithab11 at comcast.net Sat Jun 2 09:17:29 2018
From: smithab11 at comcast.net (B. Smith)
Date: Sat, 2 Jun 2018 09:17:29 -0400
Subject: [BoatAnchors] Pogo Stick Chest Set Cable or Connector Needed
Message-ID: <1ea921b3-33bd-1a8d-8310-5c1563127b43@comcast.net>

Rebuilding a empty Chest Set enclosure but need the cable or just the
connector.
73 breck k4che

<http://k4che.com/Tempvideo/Pogo-Parts/Pogo%20Parts%20needed.htm>

From 1oldlens1 at ix.netcom.com Sat Jun 2 04:38:12 2018
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Sat, 2 Jun 2018 01:38:12 -0700
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAgg@mail.gmail.com>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAgg@mail.gmail.com>
Message-ID: <2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>

There are a couple of titles I can't make out
The book between Fink and Terman, the one between Lineman's and
Cableman's hand book and Fundamentals of Radio, might be
Reference Data for Radio Engineers. Also is that a first edition
of the Radiotron on the far left or just a second copy of the
third edition? The one on the far right lower row next to Power
Plant Engineering is also unreadable.

There are a couple I want and will write off list.

On 6/1/2018 11:49 PM, Don Reaves via BoatAnchors wrote:

> These are duplicates I no longer need, nor want to move to a future new
> QTH.
>
> <http://radiohome.com/Images/EngineeringBooks1.JPG>
>
> Free for postage. If you see a text or texts you want, let me know which
> by title and your mailing particulars. I'll ship to you USPS media and if
> you are happy with what you get, reimburse my postage. Unless I owe you a
> favor or two (I'll looking at you Dave Stinson and Ben Hall) in which case
> everything is on me.

>

--

Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From donreaves at gmail.com Sat Jun 2 12:58:30 2018
From: donreaves at gmail.com (Don Reaves)
Date: Sat, 2 Jun 2018 11:58:30 -0500
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>
<2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>
Message-ID: <CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>

Electromatic Waves and Radiating Systems, Jordan
Yes, Reference Data for Radio Engineers, 4th edition
second copy of third edition Radiotron
Next to Power Plant is Principles of Electrical Engineering by Del Toro

On Sat, Jun 2, 2018 at 3:38 AM, Richard Knoppow via BoatAnchors <
boatanchors at lists.theporch.com> wrote:

> There are a couple of titles I can't make out
> The book between Fink and Terman, the one between Lineman's and Cableman's
> hand book and Fundamentals of Radio, might be Reference Data for Radio
> Engineers. Also is that a first edition of the Radiotron on the far left
> or just a second copy of the third edition? The one on the far right lower
> row next to Power Plant Engineering is also unreadable.
> There are a couple I want and will write off list.
>
>
> On 6/1/2018 11:49 PM, Don Reaves via BoatAnchors wrote:
>
>> These are duplicates I no longer need, nor want to move to a future new
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>>
>> <http://radiohome.com/Images/EngineeringBooks1.JPG>
>>
>> Free for postage. If you see a text or texts you want, let me know which
>> by title and your mailing particulars. I'll ship to you USPS media and if
>> you are happy with what you get, reimburse my postage. Unless I owe you a
>> favor or two (I'll looking at you Dave Stinson and Ben Hall) in which case
>> everything is on me.
>>
>>
> --

> Richard Knoppow
> 1oldlens1 at ix.netcom.com
> WB6KBL
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

--

Don Reaves W50R
8101 Barrett Rd.
Roland AR 72135
Fiber: 501.244.3574
Radio: 501.952.8573

From dave at horsfall.org Sat Jun 2 13:16:32 2018
From: dave at horsfall.org (Dave Horsfall)
Date: Sun, 3 Jun 2018 03:16:32 +1000 (EST)
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>
<2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>
<CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>
Message-ID: <alpine.BSF.2.21.999.1806030312530.37599@aneurin.horsfall.org>

Did someone say that they had a Reference Data for Radio Engineers to give away for just postage? I've lost the original email, but I'm in Australia (as you can tell)...

-- Dave VK2KFU

From donreaves at gmail.com Sat Jun 2 13:30:17 2018
From: donreaves at gmail.com (Don Reaves)
Date: Sat, 2 Jun 2018 12:30:17 -0500
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <alpine.BSF.2.21.999.1806030312530.37599@aneurin.horsfall.org>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>
<2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>
<CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>
<alpine.BSF.2.21.999.1806030312530.37599@aneurin.horsfall.org>
Message-ID: <CAEj02LZ5t1E=UU2ZTsWuHa+uuX+P+xGHn1pVkChs5Pn2wgUoGA@mail.gmail.com>

Yes, Dave. Its yours if you want it.

Reference Data for Radio Engineers, Fourth Edition.

Send an address that USPS can deliver to.

On Sat, Jun 2, 2018 at 12:16 PM, Dave Horsfall <dave at horsfall.org> wrote:

> Did someone say that they had a Reference Data for Radio Engineers to give
> away for just postage? I've lost the original email, but I'm in Australia
> (as you can tell)...

>

> -- Dave VK2KFU

>

>

> -----

> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

>

--

Don Reaves W50R

8101 Barrett Rd.

Roland AR 72135

Fiber: 501.244.3574

Radio: 501.952.8573

From dave at horsfall.org Sat Jun 2 13:38:29 2018

From: dave at horsfall.org (Dave Horsfall)

Date: Sun, 3 Jun 2018 03:38:29 +1000 (EST)

Subject: [BoatAnchors] EE books for postage

In-Reply-To: <CAEj02LZ5t1E=UU2ZTsWuHa+uuX+P+xGHn1pVkJChs5Pn2wgUoGA@mail.gmail.com>

References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>

<2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>

<CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>

<alpine.BSF.2.21.999.1806030312530.37599@aneurin.horsfall.org>

<CAEj02LZ5t1E=UU2ZTsWuHa+uuX+P+xGHn1pVkJChs5Pn2wgUoGA@mail.gmail.com>

Message-ID: <alpine.BSF.2.21.999.1806030335250.37599@aneurin.horsfall.org>

On Sat, 2 Jun 2018, Don Reaves via BoatAnchors wrote:

> Yes, Dave. Its yours if you want it.

Many thanks, kind sir!

> Reference Data for Radio Engineers, Fourth Edition.

>

> Send an address that USPS can deliver to.

Unit 13
79 Glennie St
North Gosford
NSW 2250
Australia

Thanks again!

-- Dave VK2KFU

From donreaves at gmail.com Sat Jun 2 13:40:59 2018
From: donreaves at gmail.com (Don Reaves)
Date: Sat, 2 Jun 2018 12:40:59 -0500
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <alpine.BSF.2.21.999.1806030335250.37599@aneurin.horsfall.org>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAGg@mail.gmail.com>
<2b79cf0a-7ea0-f31c-6758-8a5e5017cd74@ix.netcom.com>
<CAEj02La_aF3vqp0PGBsZGfwD0hmVe2K2MUf6Aihk54fgz1ZgFA@mail.gmail.com>
<alpine.BSF.2.21.999.1806030312530.37599@aneurin.horsfall.org>
<CAEj02LZ5t1E=UU2ZTsWuHa+uuX+P+xGHn1pVkChs5Pn2wgUoGA@mail.gmail.com>
<alpine.BSF.2.21.999.1806030335250.37599@aneurin.horsfall.org>
Message-ID: <CAEj02LbGb7wGXBNzySgFJv9FwWe5o1ihX6xB5ozXm9LXb+1EJA@mail.gmail.com>

Dave,

I'll ship it out next week.

You're welcome.

Don

On Sat, Jun 2, 2018 at 12:38 PM, Dave Horsfall <dave at horsfall.org> wrote:

> On Sat, 2 Jun 2018, Don Reaves via BoatAnchors wrote:

>

> Yes, Dave. Its yours if you want it.

>>

>

> Many thanks, kind sir!

>

> Reference Data for Radio Engineers, Fourth Edition.

>>

>> Send an address that USPS can deliver to.

>>

>

> Unit 13
> 79 Glennie St
> North Gosford
> NSW 2250
> Australia
>
> Thanks again!
>
>
> -- Dave VK2KFU
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

--
Don Reaves W50R
8101 Barrett Rd.
Roland AR 72135
Fiber: 501.244.3574
Radio: 501.952.8573

From donreaves at gmail.com Sat Jun 2 13:47:41 2018
From: donreaves at gmail.com (Don Reaves)
Date: Sat, 2 Jun 2018 12:47:41 -0500
Subject: [BoatAnchors] EE books for postage, revised
Message-ID: <CAEj02LYLTg7-imuBfra8kgDfS32HxyyfaU=L4PU2x5NgM3pewA@mail.gmail.com>

Some are spoken for, so indicated with a cross mark.

<http://radiohome.com/Images/EngineeringBooks1.JPG>

Don

From kd5byb at kd5byb.net Sat Jun 2 16:04:00 2018
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sat, 2 Jun 2018 15:04:00 -0500
Subject: [BoatAnchors] The Rules of Ware
In-Reply-To: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAgg@mail.gmail.com>
References: <CAEj02LbQff1sg2WNCUv8mRMHRD1rshjtmkqfMjjYaz20HYPAgg@mail.gmail.com>
Message-ID: <ae4f2e14-b2ae-c08c-c6f4-d9c50b32526d@kd5byb.net>

On 6/2/2018 1:49 AM, Don Reaves via BoatAnchors wrote:

> I would specify Rules of Ware but can't find a copy of his original terms

Good afternoon all!

Larry was a really good guy, gone from the list for many years now. I know I sure miss him. He had a great sense of humor. Sitting right above the keyboard is an NC-100A that I bought at the Belton Hamfest somewhere around 1997...that I then later sold to Larry...then later when Larry was getting out of the BA hobby bought back from him.

I bought several of his boxes of "Junk...errr Great Stuff" and one particular goody that I still use today was a roll of teeny-tiny must be like 0.020" thick rosin-core solder. The only problem was that it was a total rats nest. After using it for, wow, must be 20 years now, dang, I finally have it completely un-rats-nested. :)

I looked back in my archives and found them...

WITHOUT FURTHER ADO, I PRESENT, FROM THE MY ARCHIVES, THE RULES OF WARE!

- * To: Old Tube Radios <boatanchors at theporch.com>
- * Subject: Rules of Ware, and yet another giveaway
- * From: "Lawrence R. Ware"
- * Date: Mon, 04 Aug 1997 19:53:33 +0000

Good evening firebottle fanatics!

Tonight for your edification and amusement I present:
Larry's Latest Giveaway -or- Stuff for Free part 23.
(made up the part 23, done this enough times to lose count anyway

Tonight I wish to do two things:

1) Post a *short* explanation of what has become known to a number of members, (primarily those with an *odd* sense of humor as the "Rules of Ware." Several private requests have reminded me that it is probably time for the "long version" again.

2) Once again dump some junk, Errr. "Great Stuff" on unsuspecting fellow travelers...

Partly as a joke, and partly to make a point, I gathered up boxes full of old junk and started to give it away in a sorta contest format. Over a period of several months lots of junk was passed on to new homes under a semi whimsical, often changing set of "rules."

I received a lot of positive e-mail concerning what I was doing and several people began publicly referring to the giveaway rules as the "Rules of Ware." It kinda stuck...

I'm still flattered, was even more so when Jack Hill referred to the

rules as my personal "list immortality."

I change them slightly whenever posted but in essence the deal goes something like this.... (Drum Roll for effect here please, maestro...)

The rules:

Here's the most important rule: I *would* like shipping reimbursed, lately some of you have been forgetting that the USPS requires real money, (That's the government for you... always expect you to pay first, maybe get something later...)

1) You get to pay the shipping.

Winners will be determined by:

2) Tell me why you need/want them, points awarded for:

a) For the books, you must be willing to quote them back to me on request.

b) Needing them to complete a project or repair.

c) It's for someone your "Elmer-ing."

d) *Making up an outrageous story of what you will use them for.*

** For item "d" the taller and more unbelievable the better...
Hamsters, Lawyers, and space alien Hamster lawyers
in Newark who "phone home" are good. Stories about Tooth
Faerie(s), gold fillings, or how the CIA is spying
on you by listening to your teeth, are also good.
Stories about Nipper, Radio Control, Secret Societies,
or how the secret Societies used radio control on Nipper,
get extra points for the tie breaker round this time...*

3) Bonus points to anyone who has sent me a manual, helped me find a part, or provided advice, (good or bad, it's the effort that counts. or sold me something at a reasonable price.)

4) Bonus points to everyone who posts thoughtful technical messages to the BA list.

Winners will be determined any darn way I feel like.

Judges decision is final. (Although open to bribes)

Thanks much and 73,
ben, kd5byb

From thompson at mindspring.com Sat Jun 2 22:53:26 2018

From: thompson at mindspring.com (Dave Thompson)

Date: Sat, 2 Jun 2018 22:53:26 -0400 (GMT-04:00)

Subject: [BoatAnchors] The Rules of Ware

Message-ID: <2063074872.7462.1527994406820@wamui-agami.atl.sa.earthlink.net>

Hello Gang,

I visited Larry Ware in the mid 1990's at his Orlando home. Larry was not ham but really liked old National Radio's. His garage was full of the radios from very early NC100's to NC240D's. He also advised me of a couple of places who sold surplus gear. He finally went to work for a firm and told me he was probably gone for ever from boatanchors. I don't exactly remember all about him but he was probably not more than 35 or 40. The rules of ware are good rules for us to live by.

He is missed by many of us.

Dave K4JRB

From bluegrassdakine at hotmail.com Sun Jun 3 00:49:36 2018

From: bluegrassdakine at hotmail.com (Raymond Cote)

Date: Sun, 3 Jun 2018 04:49:36 +0000

Subject: [BoatAnchors] The Rules of Ware

In-Reply-To: <2063074872.7462.1527994406820@wamui-agami.atl.sa.earthlink.net>

References: <2063074872.7462.1527994406820@wamui-agami.atl.sa.earthlink.net>

Message-ID:

<BY2PR0401MB0981195437E6C2061A94BAEEA9600@BY2PR0401MB0981.namprd04.prod.outlook.com>

> On Jun 2, 2018, at 21:54, Dave Thompson via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>

>

> Hello Gang,

>

> I visited Larry Ware in the mid 1990's at his Orlando home. Larry was not ham but really liked old National Radio's. His garage
a?????-

Yes he was a hoot.

From arc5 at ix.netcom.com Mon Jun 4 01:58:21 2018

From: arc5 at ix.netcom.com (David Stinson)

Date: Mon, 4 Jun 2018 00:58:21 -0500

Subject: [BoatAnchors] 2 Jun '18, Another Interesting Sargent Auction, Garland, TX.

Message-ID: <0000001d3fbc9\$0b14d7f0\$213e87d0\$@netcom.com>

Fun and goodies at another one of Jim Sargent's Radio auctions in Garland, Texas on the 2nd. Jim is a good guy and has regular auctions. More "Antique radio" than Ham this time, but some nice gems in there. Here's a few photos of the interesting stuff. I got outbid on the Radiomarine set and the German set, but did get a very clean BC-348R and a couple of other nice things at very reasonable prices. His auctions are always a lot of fun as well. I found the British Navy B47 receiver very neat... HEAVY steel case.

Some photos of interesting items:
<https://photos.app.goo.gl/1sIyt1HKMI8sg2WK2>

Item listings and sales plus more info at:
<http://www.sargentauction.com/>

The link on his site will take you to the *middle* of the sale pages at icollector.com
Page back to see everything.
Site will direct you to icollector.com, which shows final prices for the over 400 lots.
Note that "Sold to f***r for..." means the item was sold to a "floor bidder" (a person present vs. a bidder on the internet).

GL OM ES 73 DE Dave AB5S

"Telling the truth won't get you many friends.
But it will get you the right ones."
John Lennon

From kd5byb at kd5byb.net Tue Jun 5 07:26:44 2018
From: kd5byb at kd5byb.net (kd5byb at kd5byb.net)
Date: Tue, 05 Jun 2018 04:26:44 -0700
Subject: [BoatAnchors] =?utf-8?q?ARN-6_Operator=27s_Manual=2C_ARN-44_manu?=
=?utf-8?b?YWW/?=
Message-ID:
<20180605042644.221753b8912a6762b1021bc254014d1d.a7ad13c181.wbe@email06.godaddy.com>

Good morning all,

I scanned the smaller of the two ARN-6 manuals I mentioned in my past e-mail re: ARN-6: TO 12R5-2-ARN6-2, "Handbook Operating Instructions Radio Compass AN/ARN-6", revised 15 FEB 1955.

It can be downloaded from my webpage at the following link:

<<http://www.kd5byb.net/ARN6/ARN-6%20Operating%20Instructions.pdf>>

(some computer browsers may prefer this link:

<[http://www.kd5byb.net/ARN6/ARN-6 Operating Instructions.pdf](http://www.kd5byb.net/ARN6/ARN-6%20Operating%20Instructions.pdf)>

Usually, I don't use spaces in file names, but forgot to change the file name before I stuck it up on my webpage.

Question: upon further review, I've determined that one of my ARN-6's is actually an R-713/ARN-44 where Band 1 has been modified for HF reception. Anyone know of an online link to a manual that covers the ARN-44 variant?

I'd assume it's the same minus frequency component differences on Band 1, but would like to verify that.

thanks much and 73,
ben, kd5byb

From arc5 at ix.netcom.com Sat Jun 9 17:37:15 2018
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 9 Jun 2018 16:37:15 -0500
Subject: [BoatAnchors] Ham-Com 2018 in Plano, Texas HUGE Success.
Message-ID: <001e01d4003a\$08c9e7e0\$1a5db7a0\$@netcom.com>

A being forced to wander in the wilderness of Irving Convention Center for three years, Ham-Com is back in Plano and a great success. Best show in years. Outside flea a little sparse, but that's to be expected as many people "wait and see how it goes," and it's gone very well indeed. Hats Off to Plano Amateur Radio Klub (PARK), all the volunteers, vendors and support for the massive effort which has paid-off in a great 'fest. Word is Ham-Com will be sticking to Plano for the future. Come see us!

GL OM ES 73 DE Dave AB5S

"Telling the truth won't get you many friends.
But it will get you the right ones."
John Lennon

From listown at nanniandjack.com Sat Jun 9 19:09:23 2018
From: listown at nanniandjack.com (Jack G F Hill)
Date: Sat, 9 Jun 2018 18:09:23 -0500
Subject: [BoatAnchors] Seeking New Home for Hallicrafters HT-32B and
Alpha-78 Amplifiers
Message-ID: <bcae8aa2-381c-bf9d-12d3-c4b5d4981d58@nanniandjack.com>

Lovers of Fire Bottles: I have two amplifiers that I have lovingly hauled around with me, and now that I live in an HOA-controlled subdivision, they are needing to find new homes. The HT-32B, for those who don't know, runs off 117VAC and NOT 234VAC. The original power cord cracked and became unsafe some time ago, so in the interests of getting every last electron through to the power supply, I substituted some 12 ga Romex with a Hubbell three prong power plug. Not pretty, but effective. I will disconnect the Romex and let the new custodian chose his/her own electron delivery conduit. When last used, it loaded just fine on 75 meters (and 40, 20, 15, and 10) and provided good clean audio. It's been a while, so I can verify caps, but the tube is good (and I may have a spare hiding somewhere that goes with it). The Alpha-78 is in pretty good shape, although there was a relay that malfunctioned and was replaced. Cosmetically it is good, but NOT NOS! Email me OFF LIST for more info or to make an offer - I am older, and more reasonable than I once was! ;-) -- Jack Hill, W4KH - BoatAnchors Listowner/Archiver listown at nanniandjack.com "Plus ca change, plus c'est la meme chose" "Il n'y a que les idiots qui ne changent jamais d'idee"

From packradt at gmail.com Sun Jun 10 01:18:45 2018
From: packradt at gmail.com (packradt packradt)
Date: Sun, 10 Jun 2018 00:18:45 -0500
Subject: [BoatAnchors] WW2 Liberty Ship Transmitter.
Message-ID: <CABYRTqdX=yPvUMboRELXwBAeENPWreB5HFrtqoyOg_bYkFndPg@mail.gmail.com>

A fellow named Thomas Young has found a transmitter in the barn of the family farm he's trying to clean out. it is an ET-8023-D1, he/it is in Guthrie KY, and he is open to offers. From a couple of photos on facebook, it looks like it is missing the receiver, and has been in covered, but to say the least non climate controlled conditions.

It is a mildly crusty green version of the one pictured on the John Brown:
<http://jproc.ca/ve3fab/jbrr2.jpg>

I am lighting the beacon to see if anyone like Jerry Proc working with the John Brown Liberty Ship preservation group or Perry Ballinger with the LST-325 ship preservation group have an interest in acquiring this transmitter with plans to restore or break for spares. No fiduciary interest; I just realized I have never ever seen one of these before in the flesh.

I have had one exchange with him, and he reports that most inquiries other than mine have been barely literate.

For those that have facebook, the link is this :
<https://www.facebook.com/marketplace/item/186980308688371/>

While I am interested, I am also out of room and most importantly married. I can't haul it home because I'd like to get some sleep at night. Much as I love 'em, I cannot be in the business of housing strays.

What say the group?

Best, Nathan E.

From JJan-3 at cox.net Sun Jun 10 21:04:12 2018
From: JJan-3 at cox.net (Jim Hill)
Date: Sun, 10 Jun 2018 18:04:12 -0700
Subject: [BoatAnchors] EE books for postage
In-Reply-To: <tipQ1x01f5L3cNQ01ipRZx>
References: <tipQ1x01f5L3cNQ01ipRZx>
Message-ID: <20180611010418.DRPK4574.fed1rmfepo202.cox.net@fed1rmimpo306.cox.net>

Hi Don:

Morehouse, bottom shelf, about 3rd to the left from the highly visible chemistry text.

If it is the first edition, I'll take it. I think it is, since the edition is not listed.

I have the second edition. If you if you are interested in the history of radio from a technical standpoint, I highly recommend it. Spark transmitters, with some math, is listed, vacuum tubes with generous quantities of math, the Alexanderson Alternator, etc. The second edition was dated 1927, which has plenty of the first edition, dated 1921. It is a little like a 20's edition of Terman

Jim

>Don W5OR
>donreaves at gmail.com

>-----
>BoatAnchors mailing list
>BoatAnchors at lists.theporch.com
><https://lists.theporch.com/mailman/listinfo/boatanchors>

From listown at nanniandjack.com Mon Jun 11 13:49:13 2018
From: listown at nanniandjack.com (List Manager)
Date: Mon, 11 Jun 2018 11:49:13 -0600
Subject: [BoatAnchors] Lost my mind... it IS an HT-33B
Message-ID: <660529763b9224a035db36ce8c70edd9@nanniandjack.com>

OK, I'll chalk it up to advancing septuagenaria and the fact that I had just finished a conversation with an old friend about the audio modifications I had done to an HT-32B.

Yes, I did mean HT-33B Amp...
This getting old may mean I need to be re-capped and gently brought up to full voltage...
It sure ain't for sissies!
--

Jack Hill, W4KH - BoatAnchors Listowner/Archiver
listown at nanniandjack.com
"Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"

From k0myw at sbcglobal.net Mon Jun 11 13:55:24 2018
From: k0myw at sbcglobal.net (Michael OBrien)
Date: Mon, 11 Jun 2018 17:55:24 +0000 (UTC)
Subject: [BoatAnchors] Lost my mind... it IS an HT-33B
References: <953370829.3256435.1528739724831.ref@mail.yahoo.com>
Message-ID: <953370829.3256435.1528739724831@mail.yahoo.com>

Jack,

At age 73 I am very familiar with the increasing challenges of advanced age.

However, I keep reminding myself that it beats the alternative!

Thanks for all you do to help us old duffers enjoy our hobby....

73,

Mike KOMYW

On Mon, 6/11/18, List Manager <listown at nanniandjack.com> wrote:

Subject: [BoatAnchors] Lost my mind... it IS an HT-33B
To: "Old Tube Radios" <boatanchors at lists.theporch.com>
Date: Monday, June 11, 2018, 12:49 PM

OK, I'll chalk it up to advancing
septuagenaria and the fact that I had
just finished a conversation with an
old friend about the audio
modifications I had done to an HT-32B.

Yes, I did mean HT-33B Amp...
This getting old may mean I need to be
re-capped and gently brought up
to full voltage...
It sure ain't for sissies!

--

Jack Hill, W4KH - BoatAnchors
Listowner/Archiver
listown at nanniandjack.com
"Plus ca change, plus c'est la meme
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"Il n'y a que les idiots qui ne
changent jamais d'idee"

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From 4cx250b at miamioh.edu Tue Jun 12 16:59:29 2018
From: 4cx250b at miamioh.edu (Jim Garland)
Date: Tue, 12 Jun 2018 14:59:29 -0600
Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200
Message-ID: <09a7a03f-b941-8b74-1a52-ac45cf5d4333@miamioh.edu>

Hi Gang,
I got an email from the sister-in-law of Joe W9ITV, who became an SK
last October. Joe evidently had a large boatanchor collection, and she
was writing specifically about his FPM-200. She said Joe worked for
Hallicrafters when the radio was built (late 1950s), and was a skilled
technician who took pride in making sure his radios were functional.

She sent me a photo of his FPM-200, which comes with matching power
supply, and cosmetically it looks excellent. She doesn't know if it
works, but I suggested she plug it in and turn it on and see what
happens. (I gave her instructions for doing that. The power supply is
just a simple unregulated 12V power supply.)

If you're interested, drop me an email and I'll send along the photo and contact info. She asked me about value, and I told her a cosmetically excellent but non-working FPM200 is probably in the \$1500-\$2500 range, while a working radio might be twice that. That's just a guess on my part. The radios are extremely rare, with roughly 30 in existence. I've maintained an owners list since 1994, which you can check out at http://www.w8zr.net/vintage/tcvrs/FPM200_list.htm. The radios sold new for \$2660, or about the same as the KWS1/75A4, of about the same time period.

73,

Jim W8ZR

From wa1kbq at aol.com Tue Jun 12 21:45:26 2018
From: wa1kbq at aol.com (Greg Gore)
Date: Tue, 12 Jun 2018 21:45:26 -0400
Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200
In-Reply-To: <09a7a03f-b941-8b74-1a52-ac45cf5d4333@miamioh.edu>
References: <09a7a03f-b941-8b74-1a52-ac45cf5d4333@miamioh.edu>
Message-ID: <163f6d1ad2f-c91-b75c@webjas-vae132.srv.aolmail.net>

Jim,

I'd certainly be interested in purchasing this one. Please send me what you have and I'll follow up on it.

Vy 73, Greg
WA1KBQ

-----Original Message-----

From: Jim Garland <4cx250b at miamioh.edu>
To: boatanchors <boatanchors at lists.theporch.com>
Sent: Tue, Jun 12, 2018 8:22 pm
Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200

Hi Gang,

I got an email from the sister-in-law of Joe W9ITV, who became an SK last October. Joe evidently had a large boatanchor collection, and she was writing specifically about his FPM-200. She said Joe worked for Hallicrafters when the radio was built (late 1950s), and was a skilled technician who took pride in making sure his radios were functional.

She sent me a photo of his FPM-200, which comes with matching power supply, and cosmetically it looks excellent. She doesn't know if it works, but I suggested she plug it in and turn it on and see what happens. (I gave her instructions for doing that. The power supply is just a simple unregulated 12V power supply.)

If you're interested, drop me an email and I'll send along the photo and contact info. She asked me about value, and I told her a cosmetically excellent but non-working FPM200 is probably in the \$1500-\$2500 range, while a working radio might be twice that. That's just a guess on my part. The radios are extremely rare, with roughly 30 in existence. I've maintained an owners list since 1994, which you can check out at http://www.w8zr.net/vintage/tcvrs/FPM200_list.htm. The radios sold new for \$2660, or about the same as the KWS1/75A4, of about the same time period.

73,

Jim W8ZR

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From thompson at mindspring.com Wed Jun 13 12:57:01 2018
From: thompson at mindspring.com (Dave Thompson)
Date: Wed, 13 Jun 2018 12:57:01 -0400 (GMT-04:00)
Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200
Message-ID: <1466545677.6393.1528909022005@wamui-jelly.atl.sa.earthlink.net>

There is a FPM-200 for sale on the bay for \$2600 for parts. I missed my chance to get one for \$200 when W9GIL(SK) offered me his for that price and it worked with PS and manuals. I remember the round the world flight with General Le May using one and I think the Hospital Ship Hope used one. Not many made as Jim said they were expensive for that time. There have been several SX-88's for sale lately too if you want to put up \$\$\$.

73 Dave K4JRB

-----Original Message-----

>From: Jim Garland <4cx250b at miamioh.edu>
>Sent: Jun 12, 2018 4:59 PM
>To: boatanchors at lists.theporch.com
>Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200
>

>Hi Gang,

>I got an email from the sister-in-law of Joe W9ITV, who became an SK

>last October. Joe evidently had a large boatanchor collection, and she
>was writing specifically about his FPM-200. She said Joe worked for
>Hallicrafters when the radio was built (late 1950s), and was a skilled
>technician who took pride in making sure his radios were functional.
>
>She sent me a photo of his FPM-200, which comes with matching power
>supply, and cosmetically it looks excellent. She doesn't know if it
>works, but I suggested she plug it in and turn it on and see what
>happens. (I gave her instructions for doing that. The power supply is
>just a simple unregulated 12V power supply.)
>
>If you're interested, drop me an email and I'll send along the photo and
>contact info. She asked me about value, and I told her a cosmetically
>excellent but non-working FPM200 is probably in the \$1500-\$2500 range,
>while a working radio might be twice that. That's just a guess on my
>part. The radios are extremely rare, with roughly 30 in existence. I've
>maintained an owners list since 1994, which you can check out at
>http://www.w8zr.net/vintage/tcvrs/FPM200_list.htm. The radios sold new
>for \$2660, or about the same as the KWS1/75A4, of about the same time
>period.
>
>73,
>
>Jim W8ZR
>-----
>BoatAnchors mailing list
>BoatAnchors at lists.theporch.com
><https://lists.theporch.com/mailman/listinfo/boatanchors>

From 4cx250b at miamioh.edu Wed Jun 13 15:35:27 2018
From: 4cx250b at miamioh.edu (Jim Garland)
Date: Wed, 13 Jun 2018 13:35:27 -0600
Subject: [BoatAnchors] For Sale: Hallicrafters FPM-200
In-Reply-To: <1466545677.6393.1528909022005@wamui-jelly.atl.sa.earthlink.net>
References: <1466545677.6393.1528909022005@wamui-jelly.atl.sa.earthlink.net>
Message-ID: <bc354b9d-d421-ee17-31c2-a948497358eb@miamioh.edu>

Will be interesting to see how the eBay posting turns out. Personally, I think the asking price is wishful thinking for a parts radio, but who knows? If somebody needs, e.g., a replacement PTO or something, then this may be the only option.

I had to pay \$50 once for a long-obsolete logic IC, circa 1967, to repair the phase lock loop in a National HR0-600. I searched for months trying to find the IC, and was ready to give up when I finally located one. I think the original price of the IC was probably around \$0.25.

73,

Jim W8ZR

On 6/13/2018 10:57 AM, Dave Thompson via BoatAnchors wrote:

> There is a FPM-200 for sale on the bay for \$2600 for parts. I missed my chance to get one for \$200 when W9GIL(SK) offered me his for that price and it worked with PS and manuals. I remember the round the world flight with General Le may using one and I think the Hospital Ship Hope used one. Mot many made as Jim said they were expensive for that time. There have been several SX-88's for sale lately too if you want to put up \$\$\$.

> 73 Dave K4JRB

>

> -

From 4cx250b at miamioh.edu Fri Jun 15 18:46:34 2018

From: 4cx250b at miamioh.edu (Jim Garland)

Date: Fri, 15 Jun 2018 16:46:34 -0600

Subject: [BoatAnchors] HRO-50 Coil Question

Message-ID: <041501d404fa\$b8911d00\$29b35700\$miamioh.edu>

Hi All,

A non-ham friend is restoring his HRO-50T and is trying to obtain the custom transparent dial inserts for the E and F coils (which tune the AM BC band, up to 2MHz.. Ideally, he would like to buy the inserts, but failing that would greatly appreciate a photo of the inserts so he could duplicate them. He is a master craftsman, and a meticulous restorer of vintage electronics and clocks. Interesting guy. Hope somebody can help him out. Email me if that somebody is you! Thanks.

73,

Jim W8ZR

From arc5 at ix.netcom.com Sun Jun 17 23:27:59 2018

From: arc5 at ix.netcom.com (David Stinson)

Date: Sun, 17 Jun 2018 22:27:59 -0500

Subject: [BoatAnchors] Heathkit DX-20 Cabinet Repaint.

Message-ID: <005201d406b4\$5c2c8b10\$1485a130\$@netcom.com>

Is there anyone who does Heathkit cabinet painting?

I have a Heath DX-20 with the mocha-colored wrinkle

which needs to be completely repainted.

Anyone doing this?

No- I will not attempt wrinkle paint. Never again.
I leave that for those more talented than me.
If no one can do the job, I'll just trade it off as it is.

TNX ES GL OM DE Dave AB5S

"Telling the truth won't get you many friends.
But it will get you the right ones."
John Lennon

From k1lky68 at gmail.com Thu Jun 21 15:00:55 2018
From: k1lky68 at gmail.com (Roy Morgan)
Date: Thu, 21 Jun 2018 15:00:55 -0400
Subject: [BoatAnchors] ABE and ABK Test Receiver
Message-ID: <1E67C25A-827F-4B07-A49B-B566273634C4@gmail.com>

Boatnchor folks,

I have unearthed:

Type CPR-60AAJ
Test Receiver
For use with model ABE and ABK Series Equipment

This thing has two independent ?channels?, each with on/off switch, an antenna input, two battery tubes, tuning control, and phone output.

Does anyone know about this gadget? At:
www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf <http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf>
Which is:
http://192.168.1.1:8181/http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf <http://192.168.1.1:8181/http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf>

I learn that the ABK systems were Mark III IFF system transponders operating at 158 to 168 mc.

If anyone is interested in this thing, let me know. It?s way down on my list of things to mess with.

Roy

Roy Morgan
k1lky68 at gmail.com <mailto:k1lky68 at gmail.com>

From jim.isbell at gmail.com Thu Jun 21 16:36:42 2018
From: jim.isbell at gmail.com (Jim Isbell, W5JAI)
Date: Thu, 21 Jun 2018 15:36:42 -0500
Subject: [BoatAnchors] Tempo 1 and PS
Message-ID: <CAB+LbZA_QMHPGgHLKPab=Cp99-rHb8NJHXWCss4TkneV3zLc1Q@mail.gmail.com>

I just bought a PS for my Tempo 1 so now I need a manual. Anyone know where I can download one?

Jim Isbell

On Thu, Jun 21, 2018 at 2:00 PM, Roy Morgan via BoatAnchors <boatanchors at lists.theporch.com> wrote:

> Boatnchor folks,
>
> I have unearthed:
>
> Type CPR-60AAJ
> Test Receiver
> For use with model ABE and ABK Series Equipment
>
> This thing has two independent ?channels?, each with on/off switch, an
> antenna input, two battery tubes, tuning control, and phone output.
>
> Does anyone know about this gadget? At:
> www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf <
> http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf>
> Which is:
> [http://192.168.1.1:8181/http://www.virhistory.com/navy/](http://192.168.1.1:8181/http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf)
> [manuals/94200/94200_1_05-2.pdf](http://192.168.1.1:8181/http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf) <http://192.168.1.1:8181/http://www.virhistory.com/navy/manuals/94200/94200_1_05-2.pdf>
>
> I learn that the ABK systems were Mark III IFF system transponders
> operating at 158 to 168 mc.
>
> If anyone is interested in this thing, let me know. It?s way down on my
> list of things to mess with.
>
> Roy

>
> Roy Morgan
> k1lky68 at gmail.com <mailto:k1lky68 at gmail.com>
>
>
>
>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

From arc5 at ix.netcom.com Fri Jun 22 00:35:25 2018
From: arc5 at ix.netcom.com (David Stinson)
Date: Thu, 21 Jun 2018 23:35:25 -0500
Subject: [BoatAnchors] RME Receivers / Preselectors: That Bad Tuning Drive
In-Reply-To: <001a01d3f417\$ebc0c2a0\$c34247e0\$@netcom.com>
References: <001a01d3f417\$ebc0c2a0\$c34247e0\$@netcom.com>
Message-ID: <000601d409e2\$70e239c0\$52a6ad40\$@netcom.com>

I finally got to install the re-worked reduction drive in the RME-45 receiver.

The result: While the tuning problems are improved, it is not to the degree I'd hoped, nor enough of an improvement to recommend going to the trouble. Guess I'll keep hoping for a junker with a less-worn reduction drive. Some ideas don't "pan-out." Oh well at least now we know one thing that won't work.

GL OM ES 73 DE Dave AB5S

From landn2 at frontier.com Sat Jun 23 00:50:28 2018
From: landn2 at frontier.com (landn2 at frontier.com)
Date: Fri, 22 Jun 2018 21:50:28 -0700
Subject: [BoatAnchors] Question About Hammarlund Receivers--from Liles
Message-ID: <B69B88DE-6D3F-46AF-996E-57AC756E742E@frontier.com>

Good Friday Evening Everybody,

I am enjoying a Friday evening watching the College World Series and looking around in my Ebay account. I have a question for you all:

I am familiar with the Hammarlund SP-200 series of receivers. I have also seen a few SP-400's but not very many. There is an SP-400SX on Ebay; but this is a new one on me. There are a lot of the SP-200LX (BC-779), SP-200X (BC-1004), and SP-200SX (BC-794) receivers out there each with its own military name and its own frequency coverage. But how common and/or rare is the SP-400SX? Also are there such things as three versions of the SP-400?

Just thought that I would ask the professionals and experts. Everybody have a great weekend!!

Best regards from Aloha, Oregon,
Liles Garcia
landn2 at frontier.com <mailto:landn2 at frontier.com>

From anchor at ec.rr.com Sat Jun 23 09:51:00 2018
From: anchor at ec.rr.com (Al Parker)
Date: Sat, 23 Jun 2018 09:51:00 -0400
Subject: [BoatAnchors] Question About Hammarlund Receivers--from Liles
In-Reply-To: <B69B88DE-6D3F-46AF-996E-57AC756E742E@frontier.com>
References: <B69B88DE-6D3F-46AF-996E-57AC756E742E@frontier.com>
Message-ID: <9d44a76e-c64e-36b3-052a-39421295640d@ec.rr.com>

hi Liles,

The Hammarlund Historian website is still somewhat crippled, but take a look at page

<<http://www.hammarlund.info/info/sp-400/sp-400-1.jpg>>

that's the first page of the original spec sheet for the series. It lists the SP-400-X and SP-400-SX.

Main dif is that the -X covers .54 - 30mc, the SX covers 1.25-40mc.

73,

Al, W8UT
www.boatanchors.org
www.hammarlund.info

"There is nothing -- absolutely nothing -- half so much worth doing as simply messing about in boats"

Ratty, to Mole

On 6/23/2018 12:50 AM, landn2 at frontier.com wrote:

> Good Friday Evening Everybody,
>
> I am enjoying a Friday evening watching the College World Series
> and looking around in my Ebay account. I have a question for you
> all:
>
> I am familiar with the Hammarlund SP-200 series of receivers. I
> have also seen a few SP-400?s but not very many. There is an
> SP-400SX on Ebay; but this is a new one on me. There are a lot
> of the SP-200LX (BC-779), SP-200X (BC-1004), and SP-200SX
> (BC-794) receivers out there each with its own military name and
> its own frequency coverage. But how common and/or rare is the
> SP-400SX? Also are there such things as three versions of the
> SP-400?
>
> Just thought that I would ask the professionals and experts.
> Everybody have a great weekend!!
>
> Best regards from Aloha, Oregon,
> Liles Garcia
> landn2 at frontier.com <mailto:landn2 at frontier.com>
>

From landn2 at frontier.com Sat Jun 23 13:19:21 2018
From: landn2 at frontier.com (landn2 at frontier.com)
Date: Sat, 23 Jun 2018 10:19:21 -0700
Subject: [BoatAnchors] Question About Hammarlund Receivers--from Liles
In-Reply-To: <9d44a76e-c64e-36b3-052a-39421295640d@ec.rr.com>
References: <B69B88DE-6D3F-46AF-996E-57AC756E742E@frontier.com>
<9d44a76e-c64e-36b3-052a-39421295640d@ec.rr.com>
Message-ID: <0A79B9B6-0771-4F6C-94EE-FF8390E5A790@frontier.com>

Good morning Al,

Many thanks for finding this for me!! I went to the HH website before
I emailed the List, but I didn?t find that page. Again, many thanks!!

Best,
Liles
landn2 at frontier.com

> On Jun 23, 2018, at 6:51 AM, Al Parker <anchor at ec.rr.com> wrote:
>
> hi Liles,
> The Hammarlund Historian website is still somewhat crippled, but take a look
at page

> <<http://www.hammarlund.info/info/sp-400/sp-400-1.jpg>>
> that's the first page of the original spec sheet for the series. It lists
the SP-400-X and SP-400-SX.
> Main dif is that the -X covers .54 - 30mc, the SX covers 1.25-40mc.
> 73,
>
> Al, W8UT
> www.boatanchors.org
> www.hammarlund.info
>
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> worth doing as simply messing about in boats"
> Ratty, to Mole
>
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>> have also seen a few SP-400?s but not very many. There is an
>> SP-400SX on Ebay; but this is a new one on me. There are a lot
>> of the SP-200LX (BC-779), SP-200X (BC-1004), and SP-200SX
>> (BC-794) receivers out there each with its own military name and
>> its own frequency coverage. But how common and/or rare is the
>> SP-400SX? Also are there such things as three versions of the
>> SP-400?
>> Just thought that I would ask the professionals and experts.
>> Everybody have a great weekend!!
>> Best regards from Aloha, Oregon,
>> Liles Garcia
>> landn2 at frontier.com <<mailto:landn2 at frontier.com>>

From nbroline at austin.rr.com Tue Jun 26 13:26:11 2018
From: nbroline at austin.rr.com (Nick Broline)
Date: Tue, 26 Jun 2018 12:26:11 -0500
Subject: [BoatAnchors] SX-25 Restoration Questions
Message-ID: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>

I am restoring an SX-25 that is in good mechanical condition. First-blush tests say I have a good power transformer and no B+ shorts. A not so surprising task is replacing ~33 ea. paper and electrolytic caps. Problem is.....several of the paper bypasses in the front end area are inaccessible, creating a question for me:
1) It appears I can remove a sufficient number of coils from the inter-stage baffles (shields) to access the tube sockets and components beneath them. This looks difficult because the small screws mounting the coil forms to the

baffles are practically inaccessible, and perhaps finding leads to coils that must be disconnected that are only accessible from below coils,
2) Remove RF baffles individually to access the underlying tube sockets. This requires some straightforward steps such as removing the band switch shaft and unsoldering connections that were installed in the later steps of front end assembly when manufactured. Looks like this will be a great chance of cleaning the band switch decks directly and accessing the caps with ease, and verifying resistor values. However, some web posting implore one not to consider touching the sheet metal screws that mount the baffles lest they disintegrate before your eyes. I can see the baffles have been previously removed by the nutdriver marks present on the baffles. In fact, the radio has been maintained with extreme care when legacy components (wax-paper caps) were used to replace the OEM caps!

I had a pleasant surprise when I measured the values of several randomly chosen resistors.....The worst of the lot was off by less than 5%, some within 1%. I must have been very lucky because these resistors are at least 70 years old, and I considered the findings an impossibility! I'm pretty sure my luck will not hold for all of'em either.

So, for those who have restored this radio, are there any good shortcuts or evil showstoppers to be found? I always welcome sage counsel.

Thanks in advance

73

Nick Broline W5FUA

512 924 7126

?

We shall not cease from exploring
And at the end of exploring
Will be to arrive where we started
And know the place for the first time.
??? T.S. Eliot--"Little Gidding"

From a.b.bonds at Vanderbilt.Edu Tue Jun 26 14:29:38 2018

From: a.b.bonds at Vanderbilt.Edu (Bonds, A B)

Date: Tue, 26 Jun 2018 18:29:38 +0000

Subject: [BoatAnchors] SX-25 Restoration Questions

In-Reply-To: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>

References: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>

Message-ID: <C8FFB7BC5D48064D8BF9AD0086503DF9846EB9B4@ITS-HCWNEM107.ds.vanderbilt.edu>

So, for those who have restored this radio, are there any good shortcuts or evil showstoppers to be found? I always welcome sage counsel.

Thanks in advance

73

Nick Broline W5FUA

I have not done the SX25, but have done several SX28s. The common approach to handling the caps in the RF section is removal of the bandswitch shaft and removing the RF shields deck by deck. Yes, you have to remove the sheet metal screws. Yes, you have to unsolder several connections for each deck. This does however offer easy access to the capacitors. I would urge from personal experience that you also replace the mica caps in the RF deck while you have the chance. The old micas tend to drift badly.

A. B. Bonds

From arc5 at ix.netcom.com Wed Jun 27 11:22:24 2018
From: arc5 at ix.netcom.com (David Stinson)
Date: Wed, 27 Jun 2018 10:22:24 -0500
Subject: [BoatAnchors] SX-25 Restoration Questions
In-Reply-To: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>
References: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>
Message-ID: <001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>

Hello Nick, all.

Always a great pleasure to see something from you and hear to what project you are applying your talents. I would not presume to "know better" than you, of course. But for whatever it might be worth, will offer some insights:

There are those who advocate "shot-gunning" every cap and resistor in the set. I respectfully disagree. The odds of doing irreparable damage increase with every replacement, especially around decades-old bandswitches.

A philosophy for Boatanchor Repair:

0. There is never a time when drilling a hole in a case or panel will make a radio "better."

1. "Boatanchor" and Military radios are not \$10,000 YeaComWoods; one drives a "classic car" to enjoy the history, style and slower pace. One does not attempt to race a Ferrari with a stock '57 Chevy.

2. The radio must play at some acceptable level. Dead, "shelf mummy" radios get pitched in the trash when we are not around.

Playing radios have a chance at preservation. One's goal should be to preserve as much as possible of the original radio while still

conforming to rules 1 and 2.

3. Do the least amount of damage/part replacements possible consistent with 1 and 2 above.

4. A few dB of "performance" is a fair trade to accomplish 1, 2 and 3.

Do we know the parts in these stages, which would require dangerous and potentially destructive work to reach, actually need to be changed in order to conform to the above? Have 75-year-old radios here playing regularly which have had less than a half-dozen parts changed. Many of the resistors in those stages are off by 15% or more and many of the caps are original. The radio plays within a few dB of specifications. Of course, this is a matter of individual cases; one would not leave a 330-Ohm Cathode Bias resistor that measured 98 Ohms, because it would damage the tube and cause other power buss issues.

Respectfully suggest: Pull out the involved tubes. After lubing and De-Ox-It to the band switches, do "resistance to ground" measurements to assure no roasted cathode resistors or obvious shorts. Measure from the Screen pins to the buss powering it to make sure none are more than 20% hi-Z or open. If all readings are within 20% or even a little more, leave the parts for now. Isolate the high-voltage busses to these stages. Trace the busses on the diagram, looking for paths to ground such as Screen Voltage dividers, etc. Power these busses with an external supply, preferably variable with current-limiting. Leave voltage on the buss for a few hours. Does the buss pull much more current than you would expect, given the circuit? If so, there is leakage to ground somewhere which is most likely a bad bypass, but other things are possible, such as phenolic insulation which has absorbed water (TCS owners take note). Find and fix the leak. You can often find the bad part by feeling it for heat.

Next, with B+ applied, use an old 1000 Ohm/Volt

VOM to check for positive voltage on the tube grids. Don't use a hi-Z input meter like a VTVM; they can be "spoofed" by electrostatic charges on the grid-side cap plate. If you see a positive voltage on the grid pin, replace the grid coupling cap.

Once this is done, re-install the tubes and power the radio, leaving the involved stages powered by your external supply. Bring the voltage up slowly. Does the set play in a manner acceptable to you? No overheating or burning smells? Does it do so at a lower B+ Voltage than specified? Lower B+ means less current and an easier, longer life for your old parts. If the radio plays acceptably, put everything back where it belongs and enjoy your radio. If you get oscillations or motorboating, turn the B+ down until the oscillation just starts, then scope each stage for an open bypass.

Will you have to trouble-shoot something sooner or later? Of course- the thing is old and if one is not in love with his scope and soldering iron, he is in the wrong hobby. But as time goes on this will happen less and less. I have 75-year-old sets playing almost daily which have had few parts changed. A couple have rolled-over after the above procedures, but not many. One of them in the RAX-ATD station has had no parts save one tube changed at all.

Respectfully submitted for your consideration,
and all the very best to you and yours, Nick.

GL OM ES 73 DE Dave AB5S

"Telling the truth won't get you many friends.
But it will get you the right ones."

John Lennon

From harper at secureoutcomes.net Wed Jun 27 11:58:19 2018
From: harper at secureoutcomes.net (Jack Harper)
Date: Wed, 27 Jun 2018 09:58:19 -0600
Subject: [BoatAnchors] SX-25 Restoration Questions
In-Reply-To: <001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>
References: <F32DD3CC07D34AA5BD0A033D4A8BB080@DualAMD64>
<001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>
Message-ID: <mailman.547.1530115106.17229.boatanchors@lists.theporch.com>

Excellent real-world restoration advice!

I especially like the idea of powering up
sections of the powered off radio with an
external supply and measuring currents etc over half an hour.

I had never thought of that.

Regards to the List,

Jack, W?YJ ("Friend to all things Hammarlund")

At 09:22 AM 6/27/2018, David Stinson via BoatAnchors wrote:

>Hello Nick, all.
>Always a great pleasure to see something from you
>and hear to what project you are applying your
>talents. I would not presume to "know better" than
>you, of course. But for whatever it might be
>worth, will offer some insights:

Jack Harper, President
Secure Outcomes Inc
2942 Evergreen Parkway, Suite 300
Evergreen, Colorado 80439 USA

303.670.8375
303.670.3750 (fax)

<http://www.secureoutcomes.net> for Product Info.

From radiokk1k at gmail.com Wed Jun 27 12:37:25 2018
From: radiokk1k at gmail.com (Dean Gagnon)
Date: Wed, 27 Jun 2018 12:37:25 -0400
Subject: [BoatAnchors] SX-25 Restoration Questions

In-Reply-To: <001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>

References: <F32DD3CC07D34AA5BD0A033D4A8BB080@Dua1AMD64>

<001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>

Message-ID: <CAAYUohKY9w1pqmngP7KukCQGoVuVa2Dj_UipNBYRwPSS=x0iMQ@mail.gmail.com>

Great approach and lots less likely to produce a hanger queen.

Dean

KK1K

On Wed, Jun 27, 2018 at 11:22 AM, David Stinson via BoatAnchors <boatanchors at lists.theporch.com> wrote:

> Hello Nick, all.
> Always a great pleasure to see something from you
> and hear to what project you are applying your
> talents. I would not presume to "know better" than
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> enjoy the history, style and slower pace. One
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> 2. The radio must play at some acceptable level.
> Dead, "shelf mummy" radios get pitched in the
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> One's goal should be to preserve as much as
> possible of the original radio while still
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>
> 3. Do the least amount of damage/part
> replacements possible consistent with 1 and 2
> above.

>
> 4. A few dB of "performance" is a fair trade to
> accomplish 1, 2 and 3.
>
>
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> Power these busses with an external supply,
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>
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> to you? No overheating or burning smells? Does
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> Lower B+ means less current and an easier, longer
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> an open bypass.
>
> Will you have to trouble-shoot something sooner or
> later? Of course- the thing is old and if one is
> not in love with his scope and soldering iron, he
> is in the wrong hobby. But as time goes on this
> will happen less and less. I have 75-year-old
> sets playing almost daily which have had few parts
> changed. A couple have rolled-over after the
> above procedures, but not many. One of them in
> the RAX-ATD station has had no parts save one tube
> changed at all.
>
> Respectfully submitted for your consideration,
> and all the very best to you and yours, Nick.
>
> GL OM ES 73 DE Dave AB5S
>
> "Telling the truth won't get you many friends.
> But it will get you the right ones."
> John Lennon
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> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

From knjhanlon at msn.com Wed Jun 27 14:27:51 2018
From: knjhanlon at msn.com (JAMES HANLON)
Date: Wed, 27 Jun 2018 18:27:51 +0000
Subject: [BoatAnchors] SX-25 Restoration Questions
Message-ID:
<MWHPR2001MB0925B0809C95A0B8064F2AE1A0480@MWHPR2001MB0925.namprd20.prod.outlook.com>

Nick,

I completely agree with the advice from Dave, AB5S. I've restored more than 40 vintage receivers, and only about 10% of them required complete recapping. One was an SP-600JX filled with those notorious "black beauties." One was a BC-348 with those square, molded caps that are also known for early failure. One was an SX-43 that had obviously languished for a long time in a humid environment and had noticeable corrosion in many spots. One was a Western-Electric built BC453 whose canned bypass caps failed in sequence over a couple of years, an obvious end-of-life phenomenon. The rest of my collection, including FB-7, FBX and SW-3 receivers from the early 30s and an SX-28 from the same era and parts pool as your SX-25, are still going strong on most of their original caps and resistors.

Dave's diagnostic procedure is great. The only thing I can add to it is to look at the bodies of each of your wax paper capacitors. When they get hot, due to internal leakage, the wax will flow to the bottom of the capacitor body, whichever side is "down" in the radio, and form drops or ridges of wax down there. In more extreme cases they will even drip wax onto the bottom cover of the receiver. Capacitors that show those signs should be suspect.

Have fun with your Super Defiant, and 73.

Jim Hanlon, W8KGI

From nbroline at austin.rr.com Wed Jun 27 17:24:19 2018
From: nbroline at austin.rr.com (Nick Broline)
Date: Wed, 27 Jun 2018 16:24:19 -0500
Subject: [BoatAnchors] SX-25 Restoration Questions and My Hints
Message-ID: <676CD7E9BE9C4C048FBD43DEFDDFF2AF@DualAMD64>

What a generous group we have here with folks who are generous with their time! Thanks to everyone who responded either directly or on the list.

I am embarrassed by my lack of thought before I blurted out my questions.

My failure was to expect a wholesale re-capping task. (Maybe due to overly severe toilet training??) Your comments supported that if I had a passionate need to remove RF baffles, do so very carefully. That makes a lot of sense because that was the way they originally built it, but in reverse.

However, Dave Stinson's comments regarding not fixing something that is not broken. He is very wise!

This AM I went through the Hallicrafters docs and devised a way to analyze every component that might need replacement using tube socket pins, power supply generated AVC and B+ voltages w/o filaments on. I have used this method before, but just lacked the confidence that a complete recap was not required in this case. I took a baby step in this direction when I measured the grid voltages on the 6F6 audio output grids (no filaments) and found them at +12 volts. That would say that applying filaments would have likely created red plates in that stage with filaments!

Bad Silver Mica Caps?

Reminders about micas was also good. I have been plagued in restoration of 1950's gear, such as a PMR-6,7, &8, that used the Elminco (sp) brown colored SM caps for everything RF. I found bad caps could sometimes be identified because they generated a DC open circuit voltage measured with a VTVM. Ranged from a few mv to >35mv. Heat them with a soldering iron and they change, but they will always come back. Appears the internal structure makes a battery with adsorbed water.

After working your fingers raw with no progress?

For radios with low gain and are otherwise "perfect".....after everything has been done ??? I have found a modest number (<50) of front end and IF coil LC combinations that were quite loaded by low-Q micas. They tune great, but are not broad enough to suggest something is rotten. Stage gains are established by tube transconductance and load impedance. The Q of the LC network is a direct multiplier of the tube's gain. A mica may load an RF coil to $Q=12$, and, when replaced with a good cap, the Q may jump to 85 or better. That's about 17 dB gain....for free. Couple stages restored to new will convert a deaf one to a barn burner. One can measure the LC's Q by applying a very short pulse at a convenient rep rate to the circuit using a few uufd's to the hot (signal) end and observing the voltage across the LC combination with a 10 meg triggered scope with DC input. I use an old, \$5 throw-down pulse generator from a swap fest, and trigger the scope sweep with the trigger output of the generator. Don't worry about mistuning from stray C....the Q will be measured at whatever frequency the circuit rings

at. The scope will display the ringing of the circuit triggered by the pulse, and will decay at a rate that is inversely proportional to Q. Long decay = hi-Q. There is a magic voltage ratio in the decay waveform that allows one to count cycles and calculate the Q of the circuit. This is all done with no B+ and no filaments, but tubes in place. The initial voltage swing can be large depending on the pulse width and height.....probably less than 35V p-p. All you are doing is shocking the LC into damped oscillation. This method is easy to do, is fast, and required no circuit modifications. Once set up you can go through all bands and stages in a few minutes. This also works for LO circuits that may not oscillate over the whole tuning range. Actually, it works on all LC networks, including audio.

If your first try doesn't produce a classical damped waveform you may have to play with pulse width, coupling C, and scope sweep rate before it clicks in.

If you want more data on the technique, including the Q calculation, I can post it after I look it up. I could also include a step-by-step. Of course, I suppose this is old hat for most!

73

Nick Broline W5FUA

512 327 7425

We shall not cease from exploring

And at the end of exploring

Will be to arrive where we started

And know the place for the first time.

T.S. Eliot--"Little giding"

From wa1kbq at aol.com Wed Jun 27 14:35:17 2018

From: wa1kbq at aol.com (Greg Gore)

Date: Wed, 27 Jun 2018 14:35:17 -0400

Subject: [BoatAnchors] SX-25 Restoration Questions
In-Reply-To: <001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>
References: <001801d40e2a\$a6bd8300\$f4388900\$@netcom.com>
Message-ID: <16442874022-c90-72c5@webjas-vab195.srv.aolmail.net>

Great suggestions! Thanks for posting Dave. I like this one:

>4. A few dB of "performance" is a fair trade to
>accomplish 1, 2 and 3.

Regards, Greg
WA1KBQ

From 1oldlens1 at ix.netcom.com Wed Jun 27 18:11:52 2018
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Wed, 27 Jun 2018 15:11:52 -0700
Subject: [BoatAnchors] SX-25 Restoration Questions and My Hints
In-Reply-To: <676CD7E9BE9C4C048FBD43DEFDDFF2AF@DualAMD64>
References: <676CD7E9BE9C4C048FBD43DEFDDFF2AF@DualAMD64>
Message-ID: <e6f5d593-60fd-c5ce-b71e-40e59fc30d59@ix.netcom.com>

It certainly is. I've gotten lots of help here.

I disagree a little with David Stinson's approach. Paper caps were known to degrade with time. The amount depends on how much DC voltage is on them and its ratio to the rating. The more the voltage the more likely the cap is to have increased ESR and leakage. In any case modern plastic film caps are better than the paper ones were when they were new.

Its worth testing some of the caps. If they look good then leave them alone. Resistors vary with brand, the amount of voltage on them and maybe other factors. There is a general process in carbon composition resistors that tends to make them drift high. The higher the original value the more they drift but even low value resistors will drift high if they run a little hot. Any carbon comp over maybe 100K should be suspect. Again, modern carbon or metal film resistors are superior to the composition resistors when they were new. The reason carbon comp resistors are never better than 5% is that they would not keep that tolerance after soldering.

Very old carbon resistors were 20% unless marked otherwise and designs were meant to tolerate that much error. Except for some places where better accuracy is necessary the old resistors generally will be OK.

A couple of years ago I rebuilt an RCA AR-88F. These receivers were meant to operate in very difficult environments. They have NO electrolytic caps and originally only oil filled paper caps and mica caps. The war time receivers had paper caps to replace some of the mica caps. These were of the flat Micamold and Solar variety. In this receiver all were bad. Also, the oil filled paper caps all had disintegrated seals at the terminals so the oil leaked out. Even though some of them still tested good (but many were bad) I replaced them all with plastic caps. RCA made stacked mica caps that were used in several places where silvered mica was not necessary. During the war mica became hard to obtain so they used the Micamold and Solar flat paper caps. These may have been satisfactory when new but were awful by the time I rebuilt the receiver. These look like mica caps but have different markings.

In other receivers, for instance a Hallicrafters S-40A and S-20R, I replaced all paper and electrolytics. I tested the caps that came out and most were marginal. Found some off value resistors but not too many. The only ones I found in the AR-88 were very high value (1 meg or close) which had doubled in value.

I think Dave is right about avoiding serious mechanical disassembly unless you are pretty sure whatever you need to get to is bad. Some manufacturers seem to have built their stuff in layers so getting to the lower levels can be difficult. A look at a Heathkit instruction book shows that even they used layering. Anyone who has goofed in assembling a Heathkit probably knows what I mean.

Don't ever be embarrassed about questions. Sometimes you feel like you have asked where your glasses are when they are on your forehead but most of the time there will be others with the same questions and you will have done them a service.

On 6/27/2018 2:24 PM, Nick Broline wrote:

> What a generous group we have here with folks who are generous with their
> time! Thanks to everyone who responded either directly or on the list.

--

Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From vilgotch at bigpond.net.au Wed Jun 27 20:34:31 2018

From: vilgotch at bigpond.net.au (Morris Odell)

Date: Thu, 28 Jun 2018 10:34:31 +1000

Subject: [BoatAnchors] SX-25 Restoration Questions and My Hints

In-Reply-To: <e6f5d593-60fd-c5ce-b71e-40e59fc30d59@ix.netcom.com>

References: <676CD7E9BE9C4C048FBD43DEFDDFF2AF@Dua1AMD64>

<e6f5d593-60fd-c5ce-b71e-40e59fc30d59@ix.netcom.com>
Message-ID: <5BA8B21A77BA4D89A7732B1825407F1A@LGLaptop>

Hi all,

This is an interesting thread! I usually do a complete recap especially if it's a particularly rare or unusual radio and also if disassembly is complicated. For instance the RF deck of the SX-28 which is such a big job that once you've started it you don't want to waste the effort or have to do it again.

Also down here in Australia we have a lot of British boatanchors that pretty much always have terrible capacitors. There's no point trying to preserve the dreaded "Hunts" caps in radios such as Racal RA-17s. When in doubt toss them out is my policy. Besides, it's all the more fun losing yourself in one of those radios with tools and a soldering iron. Why else do we do it?

73, Morris

From gumbear at pacbell.net Wed Jun 27 21:41:36 2018
From: gumbear at pacbell.net (Arden Allen)
Date: Wed, 27 Jun 2018 18:41:36 -0700
Subject: [BoatAnchors] SX-25 Restoration Questions and My Hints
In-Reply-To: <5BA8B21A77BA4D89A7732B1825407F1A@LGLaptop>
References: <676CD7E9BE9C4C048FBD43DEFDDFF2AF@Dua1AMD64>
<e6f5d593-60fd-c5ce-b71e-40e59fc30d59@ix.netcom.com>
<5BA8B21A77BA4D89A7732B1825407F1A@LGLaptop>
Message-ID: <DAE2005953A74F528F5A2A18A129D586@Polywell>

>Why else do we do it?

Replacing capacitors is equivalent to washing your car. It just runs better after it's done!

Arden Allen, KB6NAX

Heaven goes by favor. If it went by merit,
you would stay out and your dog would go in.
-Mark Twain

From wb3fau55 at neo.rr.com Fri Jun 29 11:30:21 2018
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Fri, 29 Jun 2018 11:30:21 -0400
Subject: [BoatAnchors] SP-600
In-Reply-To: <003001d3d2ad\$33e44750\$9bacd5f0\$@comcast.net>
Message-ID: <20180629153027.FN7SN.268487.root@cdptpa-web04>

Gary, fixable, complete, less cabinet ok. How much? Russ Erie, Pa.
---- Gary Hitchner via BoatAnchors <boatanchors at lists.theporch.com> wrote:
> Russ,
>
> What condition? I have a few here, where are you located?
>
> Gary
>
> WA2OMY
>
> -----Original Message-----
> From: BoatAnchors <boatanchors-bounces at lists.theporch.com> On Behalf Of
> wb3fau55 at neo.rr.com
> Sent: Thursday, April 12, 2018 5:50 PM
> To: boatanchors at lists.theporch.com
> Subject: [BoatAnchors] SP-600
>
> Folks I am looking to buy an SP-600. I also need parts for same. Any leads
> thanks- Russ-wb3fau _____
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>
> _____
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>